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Current issues in confidentiality: Computerized information systems, medical records, and patient rights
Patricia T Fletcher
August 1986 **ACM SIGCAS Computers and Society**, Volume 16 Issue 2-3
Publisher: ACM Press
Full text available:  pdf(959.51 KB) Additional Information: [full citation](#), [index terms](#)
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Cryptography and data security
Dorothy Elizabeth Robling Denning
January 1982 **Book**
Publisher: Addison-Wesley Longman Publishing Co., Inc.
Full text available:  pdf(19.47 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


From the Preface (See Front Matter for full Preface)



Electronic computers have evolved from exiguous experimental enterprises in the 1940s to prolific practical data processing systems in the 1980s. As we have come to rely on these systems to process and store data, we have also come to wonder about their ability to protect valuable data.

Data security is the science and study of methods of protecting data in computer and communication systems from unauthorized disclosure ...
- 

A model of OASIS role-based access control and its support for active security
Jean Bacon, Ken Moody, Walt Yao
November 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 4
Publisher: ACM Press
Full text available:  pdf(352.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

OASIS is a role-based access control architecture for achieving secure interoperation of services in an open, distributed environment. The aim of OASIS is to allow autonomous management domains to specify their own access control policies and to interoperate subject to service level agreements (SLAs). Services define roles and implement formally specified policy to control role activation and service use; users must present the required credentials, in an appropriate context, in order to activate ...

Keywords: Certificates, OASIS, RBAC, distributed systems, policy, role-based access control, service-level agreements
- 

An international collaboratory based on virtual patient records
David G. Kilman, David W. Forslund
August 1997 **Communications of the ACM**, Volume 40 Issue 8
Publisher: ACM Press
Full text available:  pdf(734.02 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
- 

Security-control methods for statistical databases: a comparative study
Nabil R. Adam, John C. Worthmann

December 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 4

Publisher: ACM Press

Full text available: pdf(3.64 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper considers the problem of providing security to statistical databases against disclosure of confidential information. Security-control methods suggested in the literature are classified into four general approaches: conceptual, query restriction, data perturbation, and output perturbation. Criteria for evaluating the performance of the various security-control methods are identified. Security-control methods that are based on each of the four approaches are discussed, t ...

6 Selected writings on computing: a personal perspective

Edsger W. Dijkstra

January 1982 Book

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(60.98 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Since the summer of 1973, when I became a Burroughs Research Fellow, my life has been very different from what it had been before. The daily routine changed: instead of going to the University each day, where I used to spend most of my time in the company of others, I now went there only one day a week and was most of the time that is, when not travelling!-- alone in my study. In my solitude, mail and the written word in general became more and more important. The circumstance that my employe ...

7 Illustrative risks to the public in the use of computer systems and related technology

Peter G. Neumann

January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 1

Publisher: ACM Press

Full text available: pdf(2.54 MB)

Additional Information: [full citation](#)8 Risks to the public: Risks to the public

Peter G. Neumann

March 2006 **ACM SIGSOFT Software Engineering Notes**, Volume 31 Issue 2

Publisher: ACM Press

Full text available: pdf(144.71 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the ACM Committee on Computers and Public Policy), plus personal contributions by others, as indicated. Opinions expressed are individual rather than organizational, and all of the usual disclaimers apply. We address problems relating to software, hardware, people, and other circumstances relating to computer systems. To economize on space, we include pointers to items in the online Risks Forum: (R i j) denotes RISKS vol i number ...

9 Illustrative risks to the public in the use of computer systems and related technology

Peter G. Neumann

January 1994 **ACM SIGSOFT Software Engineering Notes**, Volume 19 Issue 1

Publisher: ACM Press

Full text available: pdf(2.24 MB)

Additional Information: [full citation](#), [citations](#), [index terms](#)10 Risks to the public: Risks to the public

Peter G. Neumann

July 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 4

Publisher: ACM Press

Full text available: pdf(151.77 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the ACM Committee on Computers and Public Policy), plus personal contributions by others, as indicated. Opinions expressed are individual rather than organizational, and all of the usual disclaimers apply. We address problems relating to software, hardware, people, and other circumstances relating to computer systems. To economize on space, we include pointers to items in the online Risks Forum: (R i j) denotes RISKS vol i number ...

11 L-diversity: Privacy beyond k-anonymity

Ashwin Machanavajjhala, Daniel Kifer, Johannes Gehrke, Muthuramakrishnan Venkitasubramaniam

March 2007 **ACM Transactions on Knowledge Discovery from Data (TKDD)**, Volume 1 Issue 1

Publisher: ACM Press

Full text available: pdf(838.00 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Publishing data about individuals without revealing sensitive information about them is an important problem. In recent years, a new definition of privacy called *k*-anonymity has gained popularity. In a

k -anonymized dataset, each record is indistinguishable from at least $k - 1$ other records with respect to certain identifying attributes.

In this article, we show using two simple attacks that a k -anonymized dataset has some subtle but severe privacy prob ...

Keywords: ℓ-diversity, k -anonymity, Data privacy, privacy-preserving data publishing

12 Computer security (SEC): Formal specification of role-based security policies for clinical information systems



Karsten Sohr, Michael Drouineaud, Gail-Joon Ahn

March 2005

Proceedings of the 2005 ACM symposium on Applied computing SAC '05

Publisher: ACM Press

Full text available: pdf(196.29 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Many healthcare organizations have transited from their old and disparate business models based on ink and paper to a new, consolidated ones based on electronic patient records. There are significant demands on secure mechanisms for collaboration and data sharing among clinicians, patients and researchers through clinical information systems. In order to fulfil the high demands of data protection in such systems, we believe that access control policies play an important role to reduce the risks ...

Keywords: LTL, authorisation constraints, healthcare environments

13 Ethics and the computerization of pharmacy



Robert L. McCarthy, Judith A. Perrolle

August 1990

ACM SIGCAS Computers and Society , Proceedings of the conference on Computers and the quality of life CQL '90, Volume 20 Issue 3

Publisher: ACM Press

Full text available: pdf(759.40 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)

14 A prognosis for use of health, medical, and genetic information: Security and privacy after September 11: the health care example



Peter Swire, Lauren Steinfeld

April 2002

Proceedings of the 12th annual conference on Computers, freedom and privacy CFP '02

Publisher: ACM Press

Full text available: pdf(720.27 KB)

Additional Information: [full citation](#), [citations](#), [index terms](#)

15 Supporting the shared care of diabetic patients



Tim Kindberg, Nick Bryan-Kinns, Ranjit Makwana

November 1999

Proceedings of the international ACM SIGGROUP conference on Supporting group work GROUP '99

Publisher: ACM Press

Full text available: pdf(2.00 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper reports on a study of clinicians who care for diabetic patients, and on the design of an application to support their work. The clinicians' long-term activity is rooted in a series of private sessions with the patient. Clinicians exchange information but the timeliness, specificity and other salient features of the communication are often unsatisfactory. Problems consequently arise such as the omission or duplication of tests. We describe a conceptual framework to account for the ...

Keywords: cooperative systems, knowledge sharing, medical informatics

16 Data privacy and security: Personalized privacy preservation



Xiaokui Xiao, Yufei Tao

June 2006

Proceedings of the 2006 ACM SIGMOD international conference on Management of data SIGMOD '06




Publisher: ACM Press




Full text available: pdf(487.56 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

We study generalization for preserving privacy in publication of sensitive data. The existing methods focus on a universal approach that exerts the same amount of preservation for all persons, without catering for their concrete needs. The consequence is that we may be offering insufficient protection to a subset of people, while applying excessive privacy control to another subset. Motivated by this, we present a new generalization framework based on the concept of *personalized anonymity*



Keywords: k -anonymity, privacy preservation

- 17 [Record linkage and the universal identifier](#) 
 T. D. C. Kuch
 December 1972 **ACM SIGCAS Computers and Society**, Volume 3 Issue 4
 Publisher: ACM Press
 Full text available:  pdf(919.30 KB) Additional Information: [full citation](#), [references](#)

- 18 [Delegation logic: A logic-based approach to distributed authorization](#) 
 Ninghui Li, Benjamin N. Grosz, Joan Feigenbaum
 February 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Issue 1
 Publisher: ACM Press
 Full text available:  pdf(316.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)




We address the problem of authorization in large-scale, open, distributed systems. Authorization decisions are needed in electronic commerce, mobile-code execution, remote resource sharing, privacy protection, and many other applications. We adopt the trust-management approach, in which "authorization" is viewed as a "proof-of-compliance" problem: Does a set of credentials prove that a request complies with a policy? We develop a logic-based language, called *Delegation Logic* (DL), t ...

Keywords: Access control, Delegation Logic, distributed system security, logic programs, trust management

- 19 [Integrating glucometers and digital photography as experience capture tools to enhance patient understanding and communication of diabetes self-management practices](#) 
 Brian K. Smith, Jeana Frost, Meltem Albayrak, Rajneesh Sudhakar
 April 2007 **Personal and Ubiquitous Computing**, Volume 11 Issue 4
 Publisher: Springer-Verlag
 Full text available:  pdf(666.61 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Glucometers measure the accumulation of glucose in the bloodstream and are essential for avoiding health complications related to diabetes. Despite their value as tools to record and present physiological data, they lack the ability to capture the behaviors that cause fluctuations in blood glucose levels, activities that ultimately need to be understood and managed in order to maintain good health. In this paper, we describe an intervention that introduces digital photography into diabetes se ...

Keywords: Diabetes and health management, Digital photography, Experience capture and sharing, Information visualization, Ubiquitous computing

- 20 [Mobile computing in a hospital: the WARD-IN-HAND project](#) 
 M. Ancona, G. Dodero, F. Minuto, M. Guida, V. Gianuzzi
 March 2000 **Proceedings of the 2000 ACM symposium on Applied computing - Volume 2 SAC '00**
 Publisher: ACM Press
 Full text available:  pdf(244.60 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: electronic patient record, mobile computing, wireless LAN

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L8	344	HIPAA and (patient same privacy)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/06 15:04
L9	130	HIPAA and (patient same privacy and releas\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/06 15:04
S1	2	"6804787".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/03 12:49

EAST Search History

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S6	1430	726/4.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/05 16:17
S7	2	S5 and S6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/05 16:17
S9	6361	707/104.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/05 16:19
S10	1	S5 and S9	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/05 16:19
S11	44738	"707"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/05 16:19
S12	9	S5 and S11	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/05 16:23

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S16	7232	707/10.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/05 16:24
S18	2578	705/2.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/05 16:25
S19	1447	705/3.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/05 16:25
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S25	13	S5 and S18	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/05 16:26
S26	15	S5 and S19	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/07/05 16:26
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